EAST Search History

EAST Search History (Prior Art)

| Ref# | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|------|------|--|------------------------------------|---------------------|---------|---------------------|
| L1 | 50 | (CMTI OR DWMTI OR nanorope OR nanotroble's OR nanotroble's OR nanotroble's OR nanotroble's OR (singleswalld carbon nanotube) OR (singleswalld carbon nanotube) OR (multiswall carbon nanotube) OR (multiswalled carbon nanotube) OR (multiswalled carbon nanotube) OR (marchair carbon nanotube) OR (for a carbon nanotube) OR (carbon nanotibri) OR (sodium hexadecylbenzene Sulfonate) OR (sodium dodecylbenzene sulfonate) OR (sodium dodecylbenzene sulfonate) OR (sodium hexylbenzene sulfonate) OR (sodium hexylbenzene sulfonate) OR (sodium hexylbenzene sulfonate) OR (sodium nexylbenzene sulfonate) OR (sodium cotylbenzenesulfonate) OR (sodium cotylbenz | US-PGPUB; USPAT | ADJ | ON | 2010/02/13 |
| L2 | 6 | 1 AND @ad<="20020910" | US-PGPUB; USPAT | ADJ | OFF | 2010/02/13 11:58 |
| L3 | 15 | | USCOR FPRS; DERWENT; IBM_TDB | ADJ | ON | 2010/02/13 |

| | *************************************** | sulfonate) OR (Sodium dodecylbenzenesulfonate) OR (sodium dodecylbenzenesulfonate) OR (sodium dodecylbenzene sulfonate) OR (sodium hexylbenzenesulfonate) OR (sodium hexylbenzenesulfonate) OR (sodium hexylbenzenesulfonate) OR (sodium octylbenzenesulfonate) | | *************************************** | *************************************** | |
|-----|---|--|--|---|---|---------------------|
| L4 | 1 | 3 AND @ad<="20020910" | USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | OFF | 2010/02/13 12:02 |
| L5 | 111623 | "428".clas. AND @ad<="20020910" | US-PGPUB; USPAT; USOCR | ADJ | OFF | 2010/02/13 12:10 |
| L6 | 115 | ICMTI OR DWMTI OR nanorope OR nanotube\$ OR nanotibue\$ OR nanofibler\$ OR nanotibue\$ OR (single§wall carbon nanotube) OR (single§walled carbon nanotube) OR (multi§wall carbon nanotube) OR (multi§walled carbon nanotube) OR (multi§walled carbon nanotube) OR (multi§walled carbon nanotube) OR (granchad carbon nanotube) OR (grazga carbon nanotube) OR (grazga carbon nanotube) OR OR (mathon nanotube) OR WMTI OR OMTI OR SWOTI! OR MWOTI! OR NANOTI! OR Nanotube OR fullerene OR (carbon nanoripe) OR (carbon nanofiber) OR (carbon nanofiber) OR (carbon nanofiber) WTH surfactant WTH (aqueous OR water OR "H.sub.2O") WTH dispersion | US-PGPUB; USPAT | ADJ | ON | 2010/02/13 |
| L7 | 91 | 6 AND substrate | US-PGPUB; USPAT | ADJ | ON | 2010/02/13 12:11 |
| L10 | 2 | 7 AND nematic gel | US-PGPUB; USPAT | ADJ | ON | 2010/02/13 13:33 |
| L11 | 32 | 7 AND gel | US-PGPUB; USPAT | ADJ | ON | 2010/02/13 13:36 |
| L26 | 21961 | [423/447.1 977/920 977/742 977/750 977/751 977/752 427/372.2 428/221 428/292.1 428/323 428/408 428/367 428/888 106/287.23 106/287.24 106/287.25 264/500 252/502 524/495 524/496 524/847).cds. | US-PGPUB; USPAT | OR | ON | 2010/02/13 13:58 |
| L27 | 12075 | 26 AND @ad<="20020910" | US-PGPUB; USPAT; USOCR | ADJ | OFF | 2010/02/13 13:58 |
| L28 | 503 | 27 AND (CNT OR DWNT! OR nanorope OR nanotubes' OR nanofibues' OR nanotubes' OR lainglies Wall nanotoroid\$ OR (singles Wall carbon nanotube) OR (singles Wall carbon nanotube) OR (multis Wall carbon nanotube) OR (multis Walled carbon nanotube) OR (armchair carbon nanotube) OR (branched carbon nanotube) OR (chiral carbon nanotube) OR (zigzag carbon nanotube) OR (zigzag carbon nanotube) OR ONTI OR ONTI OR SWONT! OR MWONT! OR MWNT! OR Nanotube OR fullerene OR (carbon | US-PGPUB; USPAT | ADJ | ON | 2010/02/13 13:58 |

| | | nanorope) OR (carbon nanofiber) OR (carbon nanofibril) OR (carbon nanofilament)) | | | | |
|-----|------|--|---------------------------|-------------|-----|---------------------|
| L29 | 12 | 28 AND (CNT) OR DWNT! OR nanorope OR nanotubes OR nanotibers OR nanotubes OR nanotibers OR nanotubes OR (singleswall carbon nanotube) OR (singleswall carbon nanotube) OR (multiswall carbon nanotube) OR (multiswall carbon nanotube) OR (multiswall carbon nanotube) OR (chiral carbon nanotube) OR (carbon nanotube) OR (carbon nanotube) OR SWNT! OR CNT! OR SWNT! OR MWNT! OR MANT! OR (carbon nanofibri) OR (Sodium hexadecylbenzenesullonate) OR (sodium dodecylbenzene sulfonate) OR (sodium hoxyl benzene sulfonate) OR (sodium carbon sulfona | US-PGPUB; USPAT; USOCR | ADJ | ÖN | 2010/02/13 13:59 |
| SI | 19 | ("20020046872" "20020058743" "20020068170" "20020090501" "200201611011" "20020185770" "20020197923" "20030077515" "20030121111" "20030128502" "20030151030" "20030158323" "2003016427" "20030236588" "20040029706" "5908585" "657634" "6617377" "6689835"). PN. | US-PGPUB; USPAT | ADJ | OFF | 2008/08/05 13:48 |
| S2 | 1 | "20020113335".PN. | US-PGPUB; USPAT | ADJ | OFF | 2008/08/05 13:51 |
| 53 | 778 | 435/287.9.∝ls. | US-PGPUB; USPAT | A DJ | OFF | 2008/08/05 14:09 |
| S4 | 1902 | 524/495.ccls. | US-PGPUB; USPAT | ADJ | OFF | 2008/08/05 14:09 |
| S5 | 821 | 257/415.ccls. | US-PGPUB; USPAT | A DJ | OFF | 2008/08/05 14:09 |
| 96 | 1902 | 524/495.ccls. | US-PGPUB; USPAT | ADJ | OFF | 2008/08/05 14:09 |
| S7 | 2 | dispersion WITH (aqueous medium) WITH (carbon nanotube\$) WITH surfactant | US-PGPUB; USPAT | ADJ | OFF | 2008/08/05 14:15 |
| S8 | 6 | dispersion WITH (water) WITH (carbon nanotube\$) WITH surfactant | US-PGPUB; USPAT | ADJ | OFF | 2008/08/05 14:18 |

| S9 | 0 | S8 AND @ad<="20020910" | US-PGPUB; USPAT | ADJ | OFF | 2008/08/05 14:42 |
|-----|------|--|--|-----|-----|---------------------|
| S10 | 2359 | (S1 S3 S4 S5 S6) AND @ad<="20020910" | US-PGPUB; USPAT | OR | OFF | 2008/08/05 14:43 |
| S11 | 42 | S10 AND carbon nanotube\$ | US-PGPUB; USPAT | ADJ | OFF | 2008/08/05 14:43 |
| S12 | 15 | S11 AND gel | US-PGPUB; USPAT | ADJ | OFF | 2008/08/05 15:59 |
| S16 | 10 | ("20060051556" OR "20060228521" OR "20070116908" OR "20060021310" OR "20070204580" OR "20070212517" OR "20080083202" OR "20070178275" OR "20070196620" OR "20050272602").pn. | US-PGPUB; USPAT | ADJ | OFF | 2008/08/10 11:47 |
| S17 | 164 | (dispers\$4 OR suspen\$4) WITH (aqueous OR water) WITH surfactant WITH (CNT OR SWNT OR MWNT OR DWNT OR nanotube\$ OR nanofuber\$ OR nanotoroid\$) | US-PGPUB; USPAT | ADJ | OFF | 2008/08/12 14:48 |
| S18 | 54 | S17 AND @ad<= "20020910" | US-PGPUB; USPAT | ADJ | OFF | 2008/08/12 14:48 |
| S19 | 0 | S18 AND (hexylbenzene OR octylbenzene OR dodecylbenzene OR hexadecylbenzene) sulfonate | US-PGPUB; USPAT | ADJ | OFF | 2008/08/12 14:51 |
| S20 | 2 | (dispers\$4 OR suspen\$4) WITH (aqueous OR water) WITH (hexylbenzene OR cdylbenzene OR dodecylbenzene OR hexadecylbenzene) sulfonate) WITH (CNT OR SWNT OR MWNT OR DWNT OR nandtube\$ OR nanofuber\$ OR nanotroid\$) | US-PGPUB; USPAT | ADJ | OFF | 2008/08/12 14:51 |
| S21 | 8 | (dispers\$4 OR suspen\$4) WITH (aqueous OR water) WITH NADDBS WITH (CNT OR SWNT OR MWNT OR DWNT OR nanotube\$ OR nanofuber\$ OR nanotoroid\$) | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | OFF | 2008/08/12 14:54 |
| S22 | 0 | \$21 AND @ad<= "20020910" | US-PGPUB; USPAT | ADJ | OFF | 2008/08/12 14:54 |
| S23 | 10 | NaDDBS WITH (CNT OR SWNT OR MWNT OR DWNT OR nanotube\$ OR nanofuber\$ OR nanotoroid\$) | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | OFF | 2008/08/12 17:10 |
| S24 | 0 | \$23 AND @ad<="20020910" | US-PGPUB; USPAT | ADJ | OFF | 2008/08/12 17:11 |
| S25 | 9 | ((NaDDBS OR hexylbenzene OR octylbenzene OR flodecylbenzene OR flexadecylbenzene) sulfronate) WITH (CNT OR SWNT OR MWNT OR DWNT OR nanotubes OR nanotubers OR nanotubers) | US-PGPUB; USPAT; EPO; JPO; DEFWENT | ADJ | OFF | 2008/08/12 17:11 |
| S26 | 16 | (NaDDBS OR ((hexylbenzene OR octylbenzene OR dodecylbenzene OR hexadecylbenzene) suffonate)) WITH (CNT OR SWNT OR MWNT OR DWNT OR nanotubes OR nanotuber\$ OR nanotuber\$ | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | OFF | 2008/08/12 17:12 |
| S27 | 0 | S26 AND @ad< = "20020910" | US-PGPUB; USPAT | ADJ | OFF | 2008/08/12 17:12 |

| S28 | 2450 | (NaDDBS OR ((hexylbenzene OR octylbenzene OR dodecylbenzene OR hexadecylbenzene) sulfonate)) WITH surfactant\$ | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | OFF | 2008/08/12 17:14 |
|-----|------|--|--|-----|-----|---------------------|
| S29 | 1426 | \$28 AND @ad< = "20020910" | US-PGPUB; USPAT | ADJ | OFF | 2008/08/12 17:14 |
| S30 | 2305 | (NaDDBS OR ((hexylbenzene OR octylbenzene OR dodecylbenzene OR hexadecylbenzene) sulfonate)) WITH surfactant\$ | US-PGPUB; USPAT | ADJ | OFF | 2008/08/12 17:14 |
| S31 | 1426 | S30 AND @ad< = "20020910" | US-PGPUB; USPAT | ADJ | OFF | 2008/08/12 17:14 |
| S32 | 15 | (NaDDBS) WITH surfactant\$ | US-PGPUB; USPAT | ADJ | OFF | 2008/08/12 17:15 |
| S33 | 0 | S32 AND @ad<= "20020910" | US-PGPUB; USPAT | ADJ | OFF | 2008/08/12 17:15 |
| S34 | 1698 | (NaDDBS OR ((hexylbenzene OR sodium (octylbenzene OR dodecylbenzene OR hexadecylbenzene)) sulfonate)) WITH surfactant\$ | US-PGPUB; USPAT | ADJ | OFF | 2008/08/12 17:16 |
| S35 | 1052 | S34 AND @ad<= "20020910" | US-PGPUB; USPAT | ADJ | OFF | 2008/08/12 17:16 |
| S36 | 857 | S35 AND carbon | US-PGPUB; USPAT | ADJ | OFF | 2008/08/12 17:17 |
| S37 | 16 | (NaDDBS OR ((hexylbenzene OR oxylbenzene OR dodecylbenzene OR Ihexadecylbenzene) sulfonate)) WITH (ONT OR SWNT OR MWNT OR DWNT OR nanotube\$ OR nanofiber\$ OR nanotroid\$) | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | OFF | 2008/08/12 17:25 |
| S38 | 0 | S37 AND @ad<= "20020910" | US-PGPUB; USPAT | ADJ | OFF | 2008/08/12 17:26 |
| S39 | 2630 | alkyl benzene sulfonate AND @ad<="20020910" | US-PGPUB; USPAT | ADJ | OFF | 2008/08/12 17:34 |
| S40 | 2043 | S39 AND (surfactant OR wetting agent) | US-PGPUB; USPAT | ADJ | OFF | 2008/08/12 17:34 |
| S41 | 0 | S40 AND (CNT OR SWNT OR MWNT OR DWNT OR nanotube\$ OR nanofiber\$ OR nanotoroid\$) | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | OFF | 2008/08/12 17:35 |
| S42 | 44 | benzenesulfonate\$ AND (CNT OR SWNT OR MWNT OR DWNT OR nanotube\$ OR nanofiber\$ OR nanotoroid\$) | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | OFF | 2008/08/12 17:45 |
| S43 | 4 | S42 AND @ad<= "20020910" | US-PGPUB; USPAT | ADJ | OFF | 2008/08/12 17:45 |
| S44 | 19 | ["20020046872" "20020058743" "20020068170" "20020096901" "2002016110" "2002165770" "20020197923" "20030077515" "2003012111" "20031265622" "20030161030" "20030168323" "2003016427" "20030365883" "20040029706" "5908565" "6676341" "6617377" "6689835"). [PN. | US-PGPUB; USPAT | ADJ | OFF | 2008/08/12 17:47 |
| S45 | 14 | S44 AND @ad<= "20020910" | US-PGPUB; USPAT | ADJ | OFF | 2008/08/12 17:48 |

| S46 | 4 | S45 AND (surfactant OR wetting agent) | US-PGPUB; USPAT | ADJ | OFF | 2008/08/12 17:48 |
|------|-----|--|--|-----|-----|---------------------|
| S47 | 12 | S45 AND (dispers\$4 OR suspen\$4) | US-PGPUB; USPAT | ADJ | OFF | 2008/08/12 17:49 |
| S48 | 0 | (NaDDBS OR ((hexylbenzene OR sodium (octylbenzene OR dodecylbenzene OR hexadecylbenzene)) sulfonate)) AND S45 | US-PGPUB; USPAT | ADJ | OFF | 2008/08/12 17:53 |
| S49 | 0 | benzenesulfonate\$ AND S45 | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | OFF | 2008/08/12 17:53 |
| S50 | 36 | calixarene\$ WITH nano\$7 | US-PGPUB; USPAT | ADJ | OFF | 2008/09/17 14:30 |
| S51 | 13 | S50 AND @ad<="20020910" | US-PGPUB; USPAT | ADJ | OFF | 2008/09/17 14:30 |
| S52 | 5 | resorcinarene\$ WITH nano\$7 | US-PGPUB; USPAT | ADJ | OFF | 2008/09/17 14:33 |
| S53 | 2 | S52 AND @ad<="20020910" | US-PGPUB; USPAT | ADJ | OFF | 2008/09/17 14:33 |
| \$54 | 31 | calixarene WITH (surfactant\$ OR dispers \$4) | US-PGPUB; USPAT | ADJ | OFF | 2008/09/17 14:40 |
| S55 | 11 | \$54 AND @ad<="20020910" | US-PGPUB; USPAT | ADJ | OFF | 2008/09/17 14:40 |
| S56 | 1 | "20030133865".pn. | US-PGPUB; USPAT | ADJ | OFF | 2008/09/17 21:06 |
| S57 | 9 | (US-20030122111-\$ or US- 20020113335-\$ or US-20030100653-\$ or US-20030083421-\$ or US- 20030077515-\$ or US-20020185770-\$ or US-20030061955-\$).did. or (US- 6764540-\$ or US-689947-\$).did. | US-PGPUB; USPAT | ADJ | OFF | 2008/09/17 22:32 |
| S58 | 2 | S57 AND (electro\$6 WITH separat\$4) | US-PGPUB; USPAT | ADJ | OFF | 2008/09/17 22:33 |
| S59 | 3 | S57 AND (electro\$8 WITH separat\$4) | US-PGPUB; USPAT | ADJ | OFF | 2008/09/17 22:33 |
| S60 | 258 | electrophor\$8 WITH (carbon nanotube \$) | US-PGPUB; USPAT | ADJ | OFF | 2008/09/17 23:05 |
| 961 | 50 | S60 AND @ad<="20020910" | US-PGPUB; USPAT | ADJ | OFF | 2008/09/17 23:07 |
| S62 | 35 | electrophor\$8 WITH (carbon nanotube \$) WITH dispers\$4 | US-PGPUB; USPAT | ADJ | OFF | 2008/09/17 23:09 |
| S63 | 6 | S62 AND @ad<="20020910" | US-PGPUB; USPAT | ADJ | OFF | 2008/09/17 23:09 |
| 564 | 44 | S61 NOT S63 | US-PGPUB; USPAT | ADJ | OFF | 2008/09/17 23:14 |
| 365 | 10 | electrophor\$8 WITH (carbon nanotube \$) WITH (length\$ OR shape\$) | US-PGPUB; USPAT | ADJ | OFF | 2008/09/17 23:15 |
| S66 | 1 | S65 AND @ad<="20020910" | US-PGPUB; USPAT | ADJ | OFF | 2008/09/17 23:15 |

| 967 | 15 | (US-20030122111-\$ or US-20020113335-\$ or US-20030100653-\$ or US-20030083421-\$ or US-20030077515-\$ or US-20020185770-\$ or US-2003007195-\$ or US-20020185770-\$ or US-20020172639-\$ or US-20040039717-\$ or US-2002068505-\$ or US-20030133865-\$). did. or (US-6784540-\$ or US-6899947-\$ or US-689916-\$). did. or (US-6784540-\$ or US-6899947-\$ or US-689916-\$). did. | US-PGPUB; USPAT | ADJ | OFF | 2008/09/18 14:53 |
|-----|----|--|--------------------|-------------|-----|---------------------|
| S69 | 7 | S68 AND (powder\$ OR film\$ OR particle \$ OR pellet\$) | US-PGPUB; USPAT | A DJ | OFF | 2008/09/18 14:54 |
| S72 | 15 | (US-20030122111-\$ or US- 20020113335-\$ or US-20030100653-\$ or US-20030083421-\$ or US- 20030077515-\$ or US-20020185770-\$ or US-20030061965-\$ or US- 20020172639-\$ or US-20040039717-\$ or US-2002179428-\$ or US- 20020068505-\$ or US-20030133865-\$). did. or (US-6784540-\$ or US-6899947-\$ or US-689216-\$).did. | US-PGPUB; USPAT | ADJ | OFF | 2008/09/19 19:10 |
| S73 | 5 | S72 AND (self\$assembl\$3 OR self\$align \$4) | US-PGPUB; USPAT | ADJ | OFF | 2008/09/19 19:11 |
| S74 | 15 | (US-20030122111-\$ or US- 20020113335-\$ or US-20030100653-\$ or US-200300393421-\$ or US- 20030077515-\$ or US-20020185770-\$ or US-20030061965-\$ or US-20020172639-\$ 20020172639-\$ or US-20040039717-\$ or US-20020179428-\$ or US- 20020068505-\$ or US-20030133865-\$), dld. or (US-6899216-\$) or US-6899947-\$ or US-6899216-\$).did. | US-PGPUB; USPAT | ADJ | OFF | 2008/09/21 09:10 |
| S76 | 9 | S74 AND substrate\$ | US-PGPUB; USPAT | ADJ | OFF | 2008/09/21 09:19 |
| S78 | 25 | substrate\$ WITH (carbon nanotube\$) WITH surfactant\$ | US-PGPUB; USPAT | ADJ | OFF | 2008/09/21 09:28 |
| S79 | 0 | substrate\$ WITH (carbon nanotube\$) WITH surfactant\$ WITH (self\$align\$4 OR self\$assembl\$4) | US-PGPUB; USPAT | ADJ | OFF | 2008/09/21 09:29 |
| S80 | 6 | S78 AND @ad<="20020910" | US-PGPUB; USPAT | OR | OFF | 2008/09/21 09:30 |
| S81 | 2 | substrate\$ SAME ((carbon nanotube\$) WITH surfactant\$) SAME (self\$align\$4 OR self\$assembl\$4) | US-PGPUB; USPAT | ADJ | OFF | 2008/09/21 09:31 |
| S82 | 17 | substrate\$ SAME ((carbon nanotube\$) WITH surfactant\$) AND (self\$align\$4 OR self\$assembl\$4) | US-PGPUB; USPAT | ADJ | OFF | 2008/09/21 09:33 |
| S83 | 0 | substrate\$ SAME ((carbon nanotube\$) WITH surfactant\$) A | US-PGPUB; USPAT | ADJ | OFF | 2008/09/21 09:37 |
| S84 | 48 | substrate\$ SAME ((carbon nanotube\$) WITH surfactant\$) | US-PGPUB; USPAT | ADJ | OFF | 2008/09/21 09:37 |
| S85 | 12 | S84 AND @ad<="20020910" | US-PGPUB; USPAT | OR | OFF | 2008/09/21 09:37 |

| S86 | 272 | (carbon nanotube\$) WITH (sens\$3 OR detect\$3) WITH (chemical OR biological OR DNA OR glucose OR insulin OR cancer) | US-PGPUB; USPAT | ADJ | OFF | 2008/09/21 12:03 |
|------|------|--|--------------------|-----|-----|------------------------------|
| S87 | 32 | S86 AND @ad< = "20020910" | US-PGPUB; USPAT | ADJ | OFF | 2008/09/21 12:03 |
| S88 | 6 | S87 AND proton\$ | US-PGPUB; USPAT | ADJ | OFF | 2008/09/21 12:07 |
| S89 | 19 | S87 AND functional\$5 | US-PGPUB; USPAT | ADJ | OFF | 2008/09/21 12:07 |
| S90 | 2 | \$88 AND \$89 | US-PGPUB; USPAT | ADJ | OFF | 2008/09/21 12:08 |
| S91 | 14 | S89 AND (film\$ OR matrix OR matrices OR gel\$) | US-PGPUB; USPAT | ADJ | OFF | 2008/09/21 12:22 |
| S92 | 0 | (carbon nanotube) WITH nematic gel | US-PGPUB; USPAT | ADJ | OFF | 2008/09/28 00:34 |
| 593 | 0 | (carbon nanotube\$) WITH nematic gel | US-PGPUB; USPAT | ADJ | OFF | 2008/09/28 00:35 |
| S94 | 232 | (carbon nanotube\$) WITH gel | US-PGPUB; USPAT | ADJ | OFF | 2008/09/28 00:35 |
| S95 | 28 | S94 AND @ad<= "20020910" | US-PGPUB; USPAT | ADJ | OFF | 2008/09/28 00:35 |
| S96 | 0 | S95 AND (initiator OR accelerator) | US-PGPUB; USPAT | ADJ | OFF | 2008/09/28 00:36 |
| S97 | 2459 | (carbon nanotube\$) WITH (film OR dispersion) | US-PGPUB; USPAT | ADJ | OFF | 2008/09/28 00:36 |
| S98 | 368 | S97 AND @ad< = "20020910" | US-PGPUB; USPAT | ADJ | OFF | 2008/09/28 00:36 |
| S99 | 13 | S98 AND (initiator OR accelerator) | US-PGPUB; USPAT | ADJ | OFF | 2008/09/28 00:37 |
| S100 | 0 | S98 AND volumetric phase transition | US-PGPUB; USPAT | ADJ | OFF | 2008/09/28 00:57 |
| S101 | 0 | S98 AND volume phase transition | US-PGPUB; USPAT | ADJ | OFF | 2008/09/28 00:58 |
| S102 | 27 | capillary SAME nanotube SAME (gel\$ OR film\$) | US-PGPUB; USPAT | ADJ | OFF | 2008/09/28 22:26 |
| S103 | 7 | S102 AND @ad<="20020910" | US-PGPUB; USPAT | OR | OFF | 2008/09/28 22:27 |
| S104 | 135 | magnetic SAME nanotube SAME (gel\$ OR film\$) | US-PGPUB; USPAT | ADJ | OFF | 2008/09/29 00:07 |
| S105 | 29 | S104 AND @ad<="20020910" | US-PGPUB; USPAT | OR | OFF | 2008/09/29 00:08 |
| S106 | 47 | magnetic field SAME nanotube SAME (gel\$ OR film\$) | US-PGPUB; USPAT | ADJ | OFF | 2008/09/29 00:09 |
| S107 | 13 | S106 AND @ad<="20020910" | US-PGPUB; USPAT | OR | OFF | 2008/09/ 2 9 00:09 |
| S108 | 35 | ((needle\$ OR needle\$6) WITH nanotube) SAME (align\$6 OR assembl\$6 OR orient\$6) | US-PGPUB; USPAT | ADJ | OFF | 2008/09/29 01:26 |
| S109 | 10 | S108 AND @ad<="20020910" | US-PGPUB; USPAT | ADJ | OFF | 2008/09/29 01:27 |
| S110 | 502 | 423/447.2.ccls. | US-PGPUB; USPAT | ADJ | OFF | 2008/09/29 02:47 |

| S111 | 354 | S110 AND @ad<= "20020910" | US-PGPUB; USPAT | ADJ | OFF | 2008/09/29 02:47 |
|------|------|---|---------------------------|-----|-----|---------------------|
| S112 | 169 | S111 AND (nematic OR gel\$ OR film\$) | US-PGPUB; USPAT | ADJ | OFF | 2008/09/29 02:48 |
| S113 | 1 | S111 AND (nematic) | US-PGPUB; USPAT | ADJ | OFF | 2008/09/29 02:48 |
| S114 | 1 | "20060099135".pn. | US-PGPUB; USPAT | ADJ | ON | 2009/07/21 15:39 |
| S115 | 355 | 423/447.2.ccls. AND @ad<="20020910" | US-PGPUB; USPAT; USOCR | ADJ | OFF | 2009/07/21 15:46 |
| S116 | 455 | 423/447.1.ccls. AND @ad<="20020910" | US-PGPUB; USPAT; USOCR | ADJ | OFF | 2009/07/21 15:46 |
| S117 | 1280 | 524/495.cds. AND @ad<="20020910" | US-PGPUB; USPAT; USOCR | ADJ | OFF | 2009/07/21 15:46 |
| S118 | 963 | 524/496.ccls. AND @ad<="20020910" | US-PGPUB; USPAT; USOCR | ADJ | OFF | 2009/07/21 15:46 |
| S119 | 153 | 977/742.ccls. AND @ad<="20020910" | US-PGPUB; USPAT; USOCR | ADJ | OFF | 2009/07/21 15:47 |
| S120 | 17 | 977/745.ccls. AND @ad<="20020910" | US-PGPUB; USPAT; USOCR | ADJ | OFF | 2009/07/21 15:47 |
| S121 | 14 | 977/746.ccls. AND @ad<="20020910" | US-PGPUB; USPAT; USOCR | ADJ | OFF | 2009/07/21 15:47 |
| S122 | 8 | 977/748.ccls. AND @ad<="20020910" | US-PGPUB; USPAT; USOCR | ADJ | OFF | 2009/07/21 15:48 |
| S123 | 49 | 977/750.ccls. AND @ad<="20020910" | US-PGPUB; USPAT; USOCR | ADJ | OFF | 2009/07/21 15:48 |
| S124 | 121 | 977/842.ccls. AND @ad<="20020910" | US-PGPUB; USPAT; USOCR | ADJ | OFF | 2009/07/21 15:48 |
| S125 | 46 | 977/845.ccls. AND @ad<= "20020910" | US-PGPUB; USPAT; USOCR | ADJ | OFF | 2009/07/21 15:48 |
| S126 | 56 | 977/847.ccls. AND @ad<="20020910" | US-PGPUB; USPAT; USOCR | ADJ | OFF | 2009/07/21 15:48 |
| S127 | 2540 | (S115 S116 S117 S118 S119 S120 S121 S122 S123 S124 S125 S126) | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/07/21 15:51 |
| S128 | 29 | S127 AND (NaDDBS OR NaOBS OR NaBBS OR butylbenzene OR octylbenzene OR dodecylbenzene OR hexadecylbenzene) | US-PGPUB; USPAT | ADJ | OFF | 2009/07/21 15:54 |
| S129 | 1 | S128 AND (CNT! OR SWNT! OR MWNT! OR DWNT! OR fullerene OR nanorope OR nanotube\$ OR nanofiber\$ OR nanotoroid\$) | US-PGPUB; USPAT; USOCR | ADJ | OFF | 2009/07/21 15:57 |
| S130 | 334 | (NaDDBS OR NaOBS OR NaBBS OR butylbenzene OR octylbenzene OR dodecylbenzene OR hexadecylbenzene) AND (CNT! OR SWNT! OR MWNT! OR DWNT! OR fullerene OR nanorope OR nanotube\$ OR nanofiber\$ OR nanotoroid \$) | US-PGPUB; USPAT; USOCR | ADJ | OFF | 2009/07/21 16:01 |
| S131 | 43 | S130 AND @ad<="20020910" | US-PGPUB; USPAT; USOCR | ADJ | OFF | 2009/07/21 16:01 |
| S132 | 31 | S131 AND (surfactant OR dispers\$4) | US-PGPUB; USPAT; USOCR | ADJ | OFF | 2009/07/21 16:04 |

| S133 | 6 | S132 AND (surfactant OR dispers\$4) SAME (NaDDBS OR NaOBS OR NaBBS OR butylbenzene OR octylbenzene OR dodecylbenzene OR hexadecylbenzene) | US-PGPUB; USPAT; USOCR | ADJ | OFF | 2009/07/21 16:09 |
|------|-----|---|---|-----|-----|---------------------|
| S134 | 37 | (NaDDBS OR NaOBS OR NaBBS OR butylbenzene OR octylbenzene OR dodecylbenzene OR hexadecylbenzene) AND (CNT! OR SWNT! OR MWNT! OR DWNT! OR fullerene OR nanorope OR nanotube\$ OR nanofiber\$ OR nanotoroid \$) | FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | OFF | 2009/07/21 16:15 |
| S135 | 4 | S134 AND @ad<="20020910" | FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | OFF | 2009/07/21 16:16 |
| S136 | 1 | "20060099135".pn. | US-PGPUB; USPAT | ADJ | OFF | 2010/02/12 16:25 |
| S137 | 80 | dispersion WITH (aqueous OR water OR "H.sub.2"O) WITH ((carbon nanotube) OR SWNT! OR CNT!) WITH (surfactant OR NADDBS!) | US-PGPUB; USPAT | ADJ | ON | 2010/02/12 17:38 |
| S138 | 5 | S137 AND @ad<="20020910" | US-PGPUB; USPAT | OR | OFF | 2010/02/12 17:40 |
| S139 | 81 | dispersion WITH (aqueous OR water OR "H sub 2"O) WITH (locathon nanotube) OR SMITT OR ONT) WITH (surfactant OR NADDBSI OR NAOBS OR NABBS OR butylbenzene OR octybenzene OR dodecy/benzene OR hexadecy/benzene OR (Sodium hexadecy/benzene sulfonate) OR (sodium hexadecy/benzene sulfonate) OR (sodium hexadecy/benzene sulfonate) OR (sodium hexadecy/benzene sulfonate) OR (sodium dodecy/benzene sulfonate) OR (sodium hexylbenzene sulfonate) OR (sodium hexylbenzene sulfonate) OR (sodium hexylbenzene sulfonate) OR (sodium hexylbenzene sulfonate) OR (sodium coty/benzene sulfonate) | US-PGPUB; USPAT | ADJ | ON | 2010/02/12 18:07 |
| S140 | 115 | dispersion WITH (aqueous OR water OR "H sub 2"O, WITH (locarbon nanotube) OR SMNTI OR | US-PGPUB; USPAT | ADJ | ON | 2010/02/12 |

| | *************************************** | hexylbenzenesulfonate) OR (sodium hexyl benzene sulfonate) OR (sodium hexylbenzene sulfonate) OR (Sodium octylbenzenesulfonate) OR (sodium octylbenzene sulfonate) OR (sodium octylbenzene sulfonate)) | | *************************************** | *************************************** | *************************************** |
|-------|---|--|--------------------|---|---|---|
| S141 | 15 | S140 AND @ad<="20020910" | US-PGPUB; USPAT | OR | OFF | 2010/02/12 18:13 |
| S142 | 19 | dispersion WTH (aqueous OR water OR "H-sub.2") WITH (carbon nanotube) OR SWNTI OR ONT OR SWOTT OR SWOT | US POPUB; USPAT | ADJ | ON | 2010/02/12 18:14 |
| S143 | 4 | S142 AND @ad<="20020910" | US-PGPUB; USPAT | OR | OFF | 2010/02/12 18:15 |
| \$144 | 27 | (aqueous OR water OR "H.sub.2" O) WITH ((carbon nanotube) OR SWNT! OR ONT! OR SWCNT! OR WMCNT! OR MWNT! OR nanotube OR fullerene OR (carbon nanorope) OR (carbon nanofiber) OR (carbon nanofibril) OR (carbon nanofibril) OR (carbon nanofilament)) WITH ((NADDSS) OR NaDES OR NaESS OR butylbenzene OR octylbenzene OR dodecylbenzene OR lexadecylbenzene OR (Sodium hexadecylbenzenesulfonate) OR (sodium hexadecylbenzene sulfonate) OR (sodium hexadecylbenzene sulfonate) OR (Sodium dodecylbenzene sulfonate) OR (sodium hexylbenzene sulfonate) OR (sodium octylbenzenesulfonate) OR (sodium | US-PGPUB; USPAT | AOJ | ON | 2010/02/12 |
| S145 | 5 | S144 AND @ad<="20020910" | US-PGPUB; USPAT | OR | OFF | 2010/02/12 18:19 |

| S146 | 7 | [aqueous OR water OR "H sub.2"O) WITH ((carbon nanotube) OR SWNTI OR OWT OR SWCNTI OR MWCNTI OR MWNTI OR Nanotube OR fullerene OR (carbon nanotope) OR (carbon nanofiber) OR (carbon nanofibrii) OR (carbon nanofibrii) OR (carbon nanofilament)) WITH ((NADDSS) OR NaCBS OR NaBSS OR butylbenzene OR odylbenzene OR dodecylbenzene OR hexadecylbenzene OR (Sodium hexadecylbenzenesulfonate) OR (sodium hexadecylbenzenesulfonate) OR (sodium hexadecylbenzenesulfonate) OR (sodium hexadecylbenzenesulfonate) dodecylbenzenesulfonate) OR (sodium dodecylbenzenesulfonate) OR (sodium hexylbenzenesulfonate) OR (sodium hexylbenzenesulfonate) OR (sodium hexylbenzenesulfonate) OR (sodium hexylbenzenesulfonate) OR (sodium otylbenzenesulfonate) | USOCA FPRS; EPO; JPO; DEFWENT; IBM_TDB | ADJ | ON | 2010/02/12 18:21 |
|------|----|---|--|-----|-----|---------------------|
| S147 | 0 | S146 AND @ad<="20020910" | USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2010/02/12 18:21 |
| S148 | 49 | (carbon nanotube) GR SWNTI GR GNTI CR SWCNTI OR MWCNTI OR MWNTI CR nanotube OR fullerene OR (carbon nanorope) OR (carbon nanofiber) OR (carbon nanofibril) OR (carbon nanofilament)) WITH (NADDBS) NA (Carbon nanofilament)) WITH (NADDBS) OR butylbenzene OR hexadecylbenzene OR dodecylbenzene OR hexadecylbenzene OR (Sodium hexadecylbenzene oR (Sodium hexadecylbenzene sulfonate) OR (sodium dodecylbenzene sulfonate) OR (sodium dodecylbenzene sulfonate) OR (sodium hexylbenzene sulfonate) OR (sodium hexylbenzene sulfonate) OR (sodium hexylbenzene sulfonate) OR (sodium hexylbenzene sulfonate) OR (sodium cylbenzenesulfonate) OR (sodium cylbenzene sulfonate) OR (sodium cylbenzenesulfonate) OR (sodium cylbenzenesu | US-PGPUB; USPAT | ADJ | ON | 2010/02/12 18:23 |
| S149 | 6 | S148 AND @ad<="20020910" | US-PGPUB; USPAT | OR | OFF | 2010/02/12 18:23 |
| S150 | 3 | (Matarredona Rhoads Li Harwell Balzano Resasco).in. AND S148 | US-PGPUB; USPAT | OR | ON | 2010/02/12 18:30 |
| S151 | 1 | (Sun Gao Li).in. AND S148 | US-PGPUB; USPAT | OR | ON | 2010/02/12 18:33 |

| S152 | 1 | ((carbon nanotube) OR SWNT! OR CNT! OR SWCXT! OR MWCNT! OR MWNT! OR nanotube OR fullerene OR (carbon nanorope) OR (carbon nanofiber) OR (carbon nanofibril) OR (carbon nanofilament)) WTH "Csub 12H, sub.25C.sub.6H.sub.45O.sub.3Na" | US-PGPUB; USPAT | ADJ | ON | 2010/02/12 18:34 |
|------|---|--|--|-----|-----|---------------------|
| S153 | 4 | ((carbon nanotube) OR SWNT! OR CNT! OR SWCXT! OR MWONT! OR MWNT! OR nanotube OR fulleren oR (carbon nanorope) OR (carbon nanofiber) OR (carbon nanofibril) OR (carbon nanofilament)) AND "Caub.12H.sub.25C. sub.6H.sub.4SO.sub.3Na" | US-PGPUB; USPAT | ADJ | ON | 2010/02/12 18:34 |
| S154 | 0 | S153 AND @ad<="20020910" | US-PGPUB; USPAT | OR | OFF | 2010/02/12 18:34 |
| S155 | 0 | ((carbon nanotube) OR SWNT! OR CNT! OR SWCXT! OR MWCNT! OR MWNT! OR nanotube OR fulleren CR (carbon nanorope) OR (carbon nanofiber) OR (carbon nanofibril) OR (carbon nanofilament) AND "C. sub.12H.sub.25C. sub.6H.sub.4SO.sub.3Na" | USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2010/02/12 18:35 |
| S156 | O | (Matarredona Rhoads Li Harwell Balzano Resasco Sun Gao Jin. AND (Carbon nanotube) OR SWMTI OR CNTI OR SWMTI OR MWTI OR CNTI OR SWMTI OR MWTI OR CNTI OR nanotube OR fullerene OR (carbon nanofiber) OR | USOOR; FPRS; EPC; JPC; DERWENT; IBM_TDB | ADJ | ON | 2010/02/12 |
| S157 | 0 | (Matarredona Phoads Li Harwell Balzano Resasco Sun Gao Jin, AND (carbon nanotube) OF SWMTI OR CNTI OR SWCNTI OR MWCNTI OR MWNTI OR nanotube OR fullerene OR (carbon nanofiber) OR (carbon nanofiber) OR (carbon nanofibril) OR (carbon nanofilament)) AND (NADDESI OR NACISS OR NABES OR but/benzene OR hexadecy/benzene OR dodcy/benzene OR hexadecy/benzene OR (Sodium hexadecy/benzene OR (Sodium OR (sodium hexadecy/benzene sulfonate) OR (sodium hexadecy/benzene | US-PGPUB; USPAT; USOCR | ADJ | ON | 2010/02/12 18:36 |

| *************************************** | sulfonate) OR (Sodium dodecylbenzenesulfonate) OR (sodium dodecylbenzenes sulfonate) OR (sodium dodecylbenzene sulfonate) OR (Sodium hexylbenzenesulfonate) OR (sodium hexylbenzenesulfonate) OR (sodium hexylbenzene sulfonate) OR (sodium | | | *************************************** |
|---|---|---|---|---|
| | hexylbenzene sulfonate) OR (Sodium octylbenzenesulfonate) OR (sodium octyl benzene sulfonate) OR (sodium octylbenzene sulfonate)) | *************************************** | *************************************** | |

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